

ERICA
Engineered Calcium-Silicate-Hydrates for Applications

FIRST CONSORTIUM MEETING

OLD THORNS HOTEL, LIPHOOK
February 20th – 23rd 2018

Old Thorns
Golf & Country Estate,
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Liphook,
Hampshire
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OVERVIEW	
Tuesday 20th February (Day 1) Wednesday 21st February (Day 2)	Workshop: From TRANSCEND to ERICA
Thursday 22nd February (Day 3)	ERICA: Formal Kick-Off
Friday 23rd February (Day 4)	Research Skills Training for ESRs



Workshop: From TRANSCEND to ERICA	
DAY 1	
Tuesday 20th February	
11.30	<i>Registration & ...</i>
12.00	<i>... LUNCH</i>
WELCOME	
13.00	Welcome
13.05	<i>Cement and Cement Research – a brief overview</i> (Arnaud Muller, HTC)
SESSION 1 HYDRATION AND GROWTH	
13.30	<i>On the mesoscale mechanism of synthetic calcium-silicate-hydrate precipitation: A population balance modeling approach</i> (Reza Andalibi, PSI)
13.55	<i>Advances in MD</i> (Aslam Mohamed, EPFL)
14.20	<i>From nucleation and growth mechanisms to C-S-H morphology: insights from modelling and current challenges</i> (Enrico Masoero, Newcastle University)
14.45	<i>Linking cement to concrete properties, an industrial perspective</i> (Bruno Huet, LafargeHolcim R&D)
15.10	<i>Tea/Coffee</i>
15.40	Workshop Discussion focussed on Nucleation and Growth Plans for ESRs 1-3 Facilitator: Karen Scrivener (EPFL)
17.00	<i>Close of day</i>
EVENING	
19.00	<i>DINNER</i> – The Deers Hut (local country pub)



DAY 2
Wednesday 21st February

SESSION 2 SORPTION and MICROSTRUCTURAL CHANGE

08.45 (via Video Conference)	<i>Shrinkage mechanism of hardened cement paste: interpretations of long/short-term length-change/sorption isotherm results</i> (Ippei Maruyama, Nagoya University)
09.10	<i>Spontaneous structure formation and transport in colloidal systems and mixtures</i> (Richard Sear, University of Surrey)
09.35	<i>NMR and sorption of cements</i> (Agata Gajewicz, University of Surrey)
10.00	<i>The sheet model for C-S-H: what is it, where to go and what needs to be done on the way</i> (Merlin Etzold, University of Cambridge)
10:25	<i>Changes in pore structure during storage of cement pastes at different relative humidities</i> (Karen Scrivener, EPFL)
10.40	<i>Tea/Coffee</i>
10.55	Workshop Discussion focussed on Sorption and Microstructural Change Plans for ESRs 4-8 Facilitator: (Peter McDonald, University of Surrey)
12.15	<i>LUNCH</i>

SESSION 3 TRANSPORT and ENGINEERED AGGLOMERATES

13.15	<i>Numerical modelling of transport in porous materials</i> (Ståle Fjeldstad, FEI)
13.40	<i>Strength homogenisation and shrinkage modelling based on continuum micromechanics</i> (Bernhard Pichler, TU Wien)
14.05	<i>Transport properties of cementitious materials: Some peculiarities caused by drying-induced microcracks</i> (Hong Wong, Imperial College)
14.30	<i>Lattice Boltzmann modelling of water in wood with integrated swelling</i> (Sam Henderson, University of Surrey / Forest Research)
14.55	<i>Afternoon Tea/Coffee</i>
15.15	Workshop Discussion focussed on Sorption and Microstructural Change Plans for ESRs 9-13 Facilitator: Bernhard Pichler (TU Wien)

End of Workshop

Opportunity for informal networking and recreation

ERICA Kick-Off Meeting

EVENING

19.00	<i>ERICA INAUGURAL DINNER @ OLD THORNS</i>
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DAY 3	
Thursday 22nd February	
8.45	<i>Introduction to ERICA</i> (Peter McDonald, University of Surrey)
9.00 11 × 5 minutes	Presentations from Beneficiaries and Partners <i>"Who we are and why we joined ERICA"</i>
10.00	<i>From TRANSCEND to ERICA: Workshop report</i> (Karen Scrivener, EPFL)
10.30	<i>Tea/Coffee</i>
10.50	Inaugural Meeting of The ERICA Supervisory Board Agenda (draft): 1. Introductions 2. Election of Steering Committee 3. Consortium Agreement 4. Recruitment update 5. Training and Dissemination Programme a. Schools b. Secondments c. Workshops d. MOOCs e. Impact and Outreach 6. Secondments 7. Finances 8. Reporting a. Responsibilities of ESRs b. Responsibilities of Supervisors / Administrators 9. WP-8 Ethics 10. Advisory panel 11. Any other Business 12. Date of Next Meeting (12th November 2018, Dublin)
13.00	<i>LUNCH</i>
Project planning presentations; ESRs introduce themselves and their projects (Supervisors if ESR not yet appointed)	
14.00 (13 at 8 - 10 minutes)	Project Presentations 1-13
16.00-16.15	<i>Tea/Coffee</i>
End of ERICA Kick-Off Meeting	
<i>Free evening: DINNER in LIPHOOK for ESRs</i>	



DAY 4 Friday 23rd February	
9.00	Report and Scientific Writing – structured exercise (Peter McDonald, University of Surrey)
10.30	<i>Tea/Coffee</i>
11.00	Research Data Management (Alison Motes, University of Surrey)
12.30	<i>LUNCH</i>
13:30	Good practice in the use of nano and nano-structured materials (Chris Buxey, Grace Terry, University of Surrey)
14.00	Good Practice in Programming (David Faux, University of Surrey)
15.00	<i>Tea/Coffee</i>
15.15	Literature search / record keeping and lab. notebooks / Maximising the use of meetings / networking (Facilitated discussion: PJM and DAF)
16.00	Feedback and close
End of Research Skills Training Day	

